	Application No.	Applicant(a)	
	Application No.	Applicant(s)	
	10/063,596	GODDARD ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Sandra Wegert	1647	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED ir 5) or other appropriate communication is second communication in second communication is second communication in second comm	n this application. If not included unication will be mailed in due cours	e. THIS ne initiative
1. This communication is responsive to <u>10/23/06</u> .			
2. \boxtimes The allowed claim(s) is/are <u>6-17 (Renumbered as 1-12)</u> .			
3. ☐ Acknowledgment is made of a claim for foreign priority of a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have	ve been received.		
2. Certified copies of the priority documents have			
3. Copies of the certified copies of the priority d	ocuments have been receive	d in this national stage application fr	om the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requiren	nents
4. A SUBSTITUTE OATH OR DECLARATION must be sub- INFORMAL PATENT APPLICATION (PTO-152) which gives			E OF
5. CORRECTED DRAWINGS (as "replacement sheets") mu	ust be submitted.		
(a) ☐ including changes required by the Notice of Draftspe		w (PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examine Paper No./Mail Date	r's Amendment / Comment or	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in) of
6. DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT			he
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Attachment(s)	5 	6 1D 4 4A 15 15	
1. Notice of References Cited (PTO-892)		formal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413), /Mail Date	
3. Information Disclosure Statements (PTO/SB/08),	7. Examiner's	/Mail Date Amendment/Comment	
Paper No./Mail Date <u>10/23/06</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. ⊠ Examiner's	Statement of Reasons for Allowance	е
of Biological Material	9.		
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DETAILED ACTION

The Information Disclosure Statement, submitted 23 October 2006, has been entered into the record. Claims 1-5 have been cancelled by the Applicant. Claims 6-17 are pending.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

The claims of the instant invention are directed to an isolated polypeptide of SEQ ID NO:

90. The specification provides several asserted utilities at page 142, including that the PRO polypeptides of the present invention may be differentially expressed in a diseased tissue as compared to a normal tissue of the same tissue type.

Applicants state at page 6 of their response (23 October 2006) that the gene expression data in the specification, Example 18, shows that the mRNA associated with the PRO1268 polypeptide was more highly expressed in kidney tumor tissue compared to normal kidney tissue. Gene expression was analyzed using standard semi-quantitative PCR amplification reactions of cDNA libraries isolated from different human tumor and normal human tissue samples. Identification of the differential expression of the PRO1268 polypeptide-encoding gene in tumor tissue compared to the corresponding normal tissue renders the molecule useful and enabled as a diagnostic tool for the determination of the presence or absence of tumor.

Example 18 at page 140 of the instant specification demonstrates differential expression of PRO1268 cDNA using quantitative PCR amplification reactions. DNA66519-1535 was

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shown to be more highly expressed in kidney tumor compared to normal kidney in this Example. Applicants state at page 6 of the response that Example 18 utilizes a more accurate and reliable method of assessing changes in mRNA levels, namely quantitative PCR analysis. Applicant relies on more than 140 references (see IDS filed 03/9/06), where expression levels of mRNA, measured by quantitative PCR, were found to have a good correlation to the expressed protein levels.

It had been previously argued in the Office action mailed 07/25/06 that mRNA levels were not predictive of protein levels, citing references by Haynes et al., Gygi et al., and Chen et al. However, these references were measuring and analyzing mRNA levels using microarrays, not using quantitative PCR analysis and the art recognizes that the results obtained by microarray are not always the same as the results obtained using quantitative PCR (for example, see Oda et al. Virchows Arch. 430: 99-105, 1997, specifically page 104, column 1, paragraph 2). While the PTO found several references in which the protein expression levels did not correlate with mRNA levels measured by quantitative PCR (see Sugg et al., Clinical Endocrinology 49: 629-637, 1998; Toler et al., Am. J. Obstet. Gynecol. 194: e27-e31, 2006; Berner et al. Histopathol. 42: 546-554, 2003; Brooks et al. Am. J. Physiol. Renal Physiol. 284: F218-F228, 2003), the majority of the references which were found, including those cited by Applicants, demonstrated a correlation between mRNA levels measured by quantitative PCR and protein expression levels.

Applicants assert that the expression levels of protein correlate to mRNA (cDNA) levels when the cDNA is measured by quantitative PCR (i.e. rtPCR). Applicant has provided more

than 140 references in support of this position. The prior art of record (Haynes et al., Gygi et al., Chen et al.), argued by the Examiner, is not specifically directed to message levels measured by rtPCR. Based on the totality of evidence of record, one of skill in the art would find it more likely than not that an increase in message as measured by rtPCR would be predictive of an increase in protein expression levels, absent evidence to the contrary. Therefore, the data presented in Example 18, which demonstrates differential expression of nucleic acids encoding PRO1268, also supports a conclusion of differential expression of the PRO1268 polypeptide. Therefore, one of ordinary skill in the art would be able to use the PRO1268 polypeptide diagnostically for distinguishing kidney tumors from normal kidney tissue as asserted by Applicants.

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Any comments considered necessary by applicants must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Advisory Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sandra Wegert whose telephone number is (571) 272-0895. The examiner can normally be reached Monday - Friday from 9:00 AM to 5:00 PM (Eastern Time).

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If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, Brenda Brumback, can be reached at (571) 272-0961.

The fax number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SLW

03 January 2007

BRENDA BRUMBACK
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600